

F16.2

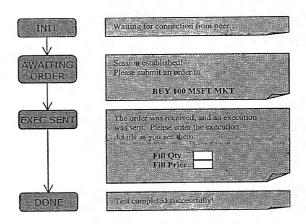
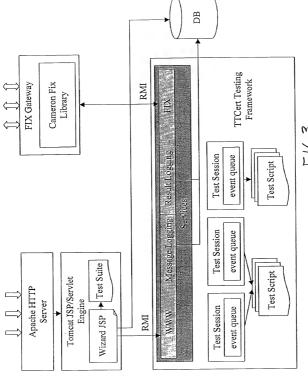
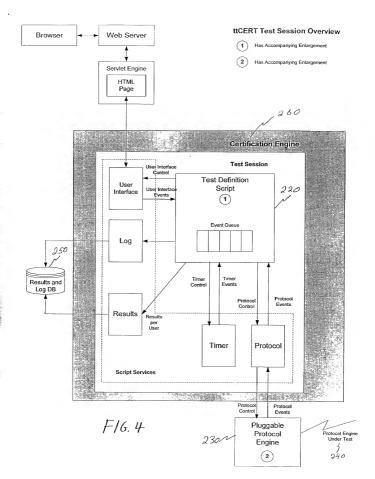
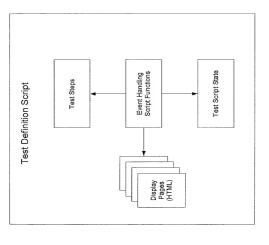


FIG. 2A

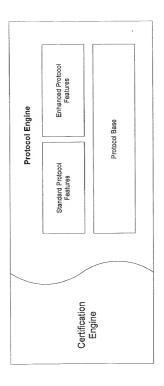


F16.3



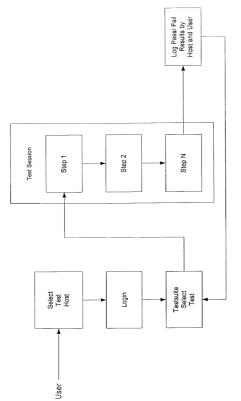


F16.5



F16,6

Testing Workflow



F16,7

Struneantholis	REDITATION OF STREET
Test since The Session-twell factors Test case Tes	RESELTO Admini Promis Discussion) Best Librari
Preferences ~810	Welcone, Transactions, Inc.
* SEL PRÉEGNESS en cumming the OpenFIX tests \text{MMA_SOR [Respired] passed} \text{MMA_SOR [Respired] passed}	The list at left reflects your current certification beating, status,
820 830 840 FIX Session-Level Test Cases	Olik on any of the noomplete tests to begin
극취	For exprision of press a consultative discussion boards, or context using support on the state of the state o
* 1. Send Heartbeat, Mossage Wow, Long [Required] failed	
* 5. Receive Heartbeat Message View Loss (Required) Not Tasted	
* 7. Receive Reject Message View Loss Required Not Tested	
* B. Pansive Resend Request Message	
* 9. Synchronize Sequence Numbers View Loss Not Tested	
* 11. Receive Sequence Reset (Reset)	
* 12. Initate Logout Process View Loas [Required] Not Tested	17
* 13 Pereire Logout Message <u>Wertos</u> [Required] not Tested	
* 18. Support Third-Party Addressing Mex.Los. Not feeted	
* 19. Test DossRasend Handling View Loss Not Tested	
2 and 3. Receive Massage Standard Header and Trailer	

F/6.8

١

Active Certification Sessions (as of 14:21:40) [Refresh]

demo	
TransactTools, Inc. (Web Session) [<u>Logout</u>]
Status: Login Time: Last Activity Time:	Logged In Thu May 17 14:20:35 EDT 2001 Thu May 17 14:21:40 EDT 2001
Last Request: FIX Certification Test Session Status:	Last Request: //cert/demo/cert/admin/session.jsp FIX Cert/fication Test Session [Sharkow] [Reset FIX] [View Log Sharkow]
Script:	D1 - (Connect to server) Unit D1:1 (This May 17 14:21:35 EDT 2001)
FIX Connection Status: IP Address: Last Sent: Last Received:	N/A N/A N/A

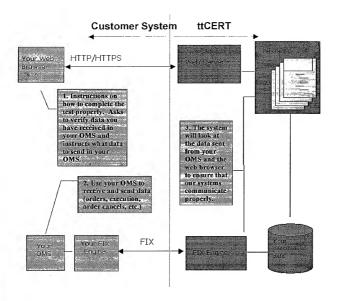
F/6.10

NY2 - 1223685.1

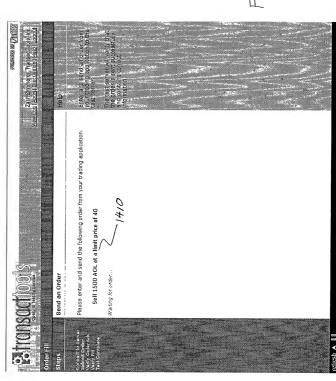
	STrunsuc.	Sjoojs	SOCIO IN LIGHTA MUNICATA STATA SOCIO	Anden
# Files # F	Current directory:	/ :		
# Files # Files 4 files 7 7247001.11:09 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Uplbad Scripte	Download Scripts (ZIP File)	Remove Directory	
# Files # f	Subdirectories	10 2/120	2/1130	
Size	tory Name		# Files 4 files 2 files	
Comparison Com	Files			
97/24/2001.11:09 4021 97/24/2001.11:09 4951 97/24/2001.11:09 4971 97/24/2001.11:09 3944 97/24/2001.11:09 3946 97/24/2001.11:09 3946 97/24/2001.11:09 376 97/24/2001.11:09 376 97/24/2001.11:09 376 97/24/2001.11:09 376 97/24/2001.11:09 376 97/24/2001.11:09 4503 97/24/2001.11:09 4503 97/24/2001.11:09 4503 97/24/2001.11:09 4503 97/24/2001.11:09 375 97/24/2001.11:09 4503 97/24/2001.11:09 375 97/24/2001.11:00 375 97/24/2001.11:00 375 97/24/2001.11:00 375 97/24/2001.	File Name	Last Modified	Size	
07/24/2001 11:009 6898 07/24/2001 11:009 67:34 07/24/2001 11:009 78:47 07/24/2001 11:009 78:4	1.xml	07/24/2001,11:09	. 4021	
07/24/2001 titldy 44271 07/24/2001 titldy 4734 07/24/2001 titldy 9394 07/24/2001 titldy 9392 07/24/2001 titldy 9393	10.xml	07/24/2001 11:09	5835	
07/24/2001 11109 4734 07/24/2001 11109 3944 07/24/2001 1109 7/24/2001 1109 3946 07/24/2001 11109 3946 07/24/2001 11109 3946 07/24/2001 11109 3786 07/24/2001 11109 3786 07/24/2001 11109 3750 07/24/2001 11109 4552 07/24/2001 11109 4554 07/24/2001 1109 4554 07/24/2001 1109 4554	11.xml	07/24/2001 11:09	487.1	
07/24/2001 11:09 07/24/2001 1	12.xml	07/24/2001 11:09	4734	
07/24/2001 11:09 3754 07/24/2001 11:09 3754 07/24/2001 11:09 3961 07/24/2001 11:09 3764 07/24/2001 11:09 3769 07/24/2001 11:09 3750 07/24/2001 11:09 3752 07/24/2001 11:09 3752 07/24/2001 11:09 4:00 07/24/2001 11:09 4:00 07/24/2001 11:09 4:00 07/24/2001 11:09 4:00 07/24/2001 11:09 4:00 07/24/2001 11:09 4:00 07/24/2001 11:09 4:00 07/24/2001 11:09 4:00 07/24/2001 11:09 4:00	13.xml	07/24/2001 11:09	3944	
07/24/2001 11/309 1/2/2009 07/24/2001 11/309 2946 07/24/2001 11/309 3946 07/24/2001 11/309 37/84 07/24/2001 11/309 37/84 07/24/2001 11/309 37/82 07/24/2001 11/309 37/82 07/24/2001 11/309 37/82 07/24/2001 11/309 37/82 07/24/2001 11/309 45/82 07/24/2001 11/309 45/82 07/24/2001 11/309 37/82 07/24/2001 11/309 37/82 07/24/2001 11/309 37/82 07/24/2001 11/309 37/82	14a.xml	07/24/2001 11:09	3754	
07/24/2001 11:09 8861 07/24/2001 11:09 3784 07/24/2001 11:09 3786 07/24/2001 11:09 3786 07/24/2001 11:09 3786 07/24/2001 11:09 3782 07/24/2001 11:09 4503 07/24/2001 11:09 4503 07/24/2001 11:09 4503 07/24/2001 01:09 4503 07/24/2001 01:09 4503 07/24/2001 01:09 4503	14b.xml	07/24/2001 11:09	4	
07/24/2001,1109	145.xml	07/24/2001 11:09	3861	
07/24/2001 11:09 8846 07/24/2001 11:09 3708 07/24/2001 11:09 3720 07/24/2001 11:09 8722 07/24/2001 11:09 4503 07/24/2001 11:09 4503 07/24/2001 11:09 4503 07/24/2001 11:09 4503 07/24/2001 11:09 4503 07/24/2001 11:09 4503	14d.xm	07/24/2001.11:09	3777	1 511
077247001 11:09 3784 077247001 11:09 3706 077247001 11:09 3722 077247001 11:09 3722 077247001 11:09 4932 077247001 11:09 4933 077247001 11:09 4933	14e.xml	07/24/2001 11:09	3846	17.01
07744200111109 3708 07744720111109 5728 07744720111109 3722 07744720111109 3722 07744720111109 3722 07744720111109 3722	14f.xml	07/24/2001 14:09	3784	
0774/2001 11:09 3750 0774/2001 11:09 5122 0774/2001 11:09 5722 0774/2001 11:09 4524 0774/2001 11:09 4534 0774/2001 11:09 4534	1.4a.xml	07/24/2001 11:09	3708	
07/24/2001 11:09 5152 07/24/2001 11:09 4503 07/24/2001 11:09 4503 07/24/2001 01:09 4503 07/24/2001 01:09 4503 07/24/2001 01:09 3701	14h.xm	07/24/2001 11:09	9,20	
07/24/2001 11:09 37:29 07/24/2001 11:09 45:35 07/24/2001 11:09 45:55 07/24/2001 12:07 07/24/2001 01:31 37:31	14:xml	07/24/2001 11:09	5152	
07/24/2001 11:09 3752 07/24/2001 11:09 4503 07/24/2001 11:09 4554 07/24/2001 02:07 3731 07/24/2001 03:01	141.xml	07/24/2001 11:09	5729	
07/24/2001 11:09 4503 4503 07/24/2001 11:09 4554 07/24/2001 01:31 3731 07/24/2001 01:31 3795	14k vm	07/24/2001 11:09	3752	
07/24/2001.11.09 4554 07/24/2001.02.07 3731 07/24/2001.01.31 3795	14lxml	07/24/2001 11:09	4503	
07/24/2001 02:07. 9731 07/24/2001 01:31	14m.zml	07/24/2001 11:09	4554	
07/24/2001 01:31	18.xml	07/24/2001 02:07	3731	
	19 xml	07/24/2001 01:31	-	and the first and the contract and the c

Upload:	* Browser, and
Upload:	Branse
Upload:	BOWS BY
Upload:	13/0
Upload:	4
Upload:	18 18 18 18 18 18 18 18 18 18 18 18 18 1
Upload:	Browse
Upload:	Browse
Upload:	Picova Bit
Upload:	Buchest and a second
Transfer File(s)	1330

F16. 13



F/6,13



F16. 1#

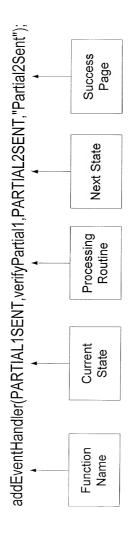
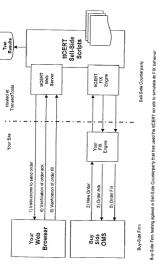
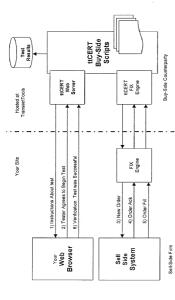


FIG. 15

						FIC		
NEDITA AN ORIGINAL	Zech Zmmerer, TransactTools Inc.	djah	The order for sentings The order for sentings The order for sentings The server and a confirmation Was senting flee tests server Bank to you treating application Your trading application senting Indicate to you that a lack	(adeath - as opposed to caleut) was realwad for the order sous sent another the order is now "live"	the Sons with in the the special work of the special working or the special working or the special working	Warnings	Instantion the message of the most of the month of the accept to developed of the accept of the	1630
ON THE PARTY OF THE AMERICAN AND AND AND AND AND AND AND AND AND A	Cincillation	Verify Order Ack	The east server has sent you are accorded by the test server and is now in a "working" or "live" state. You should see that your croter has been accepted by the test server and is now in a "working" or "live" state. Do you see that the order has been accepted?		than 1 minute away from the host time (Thu Aug D2 13:41:16 GAT-0401 (SDT)			1620
e tron		Order Fill Steps	Connect to Server Bubmis Order Verify To Adea Ack, Verify II Test Complete					16/0



The Art with the Art was a section of the Art with the Art was a section of the Art World was



Sell-Side Firm testing against a Buy-Side Counterparty that has used the ttCERT scripts to simulate its FIX behavior

FIG. 1

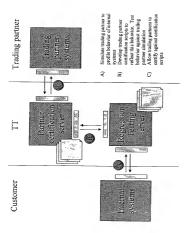
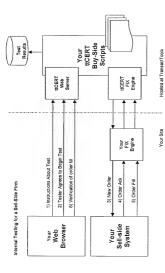
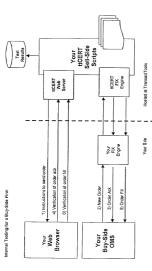


FIG. 1



As a sell-side firm, you write the buy-side scripts that run on the ttCERT server to simulate external buy-side customers

FIG. 20



As a buy-side frm, you write the sell-side scripts that run on the ITCERT server to smulate your sell-side customers

FIG. 2

Internal Testing of Automated Scripts - Running Buy-Side Scripts Against Sell-Side Scripts

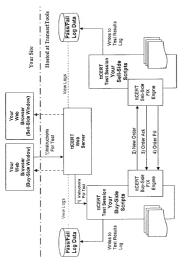


FIG. 2

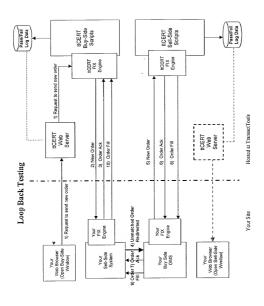


FIG. 23